

Contents of Applied Physics B51

This listing presents the papers in alphabetical order of the first author. The Author Index that follows covers **Applied Physics A** and **B**, and is presented in tabular form. The names are listed in alphabetical order in the first column. The second and third columns contain the bibliographic data necessary to locate the paper. The issue is specified by the number separated from the volume number by a slash. The PACS numbers given in the fourth column may be used in conjunction with the PACS listing on the left to infer the topic of a paper.

Photophysics and Laser Chemistry

- Acker W.P., Serpengüzel A., Chang R.K., Hill S.C.:
Stimulated Raman scattering of fuel droplets: Chemical concentration and size determination.
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- Akitt D., Seguin H.J.J., Cervenán M.R., Nikumb S.K.:
Automatic alignment of a high-power CO₂ laser resonator.
Appl. Phys. B 51/5, 326-328 (1990) PACS: 42.55D 42.60
- Al Dhahir R.K., Dyer P.E., Zhu Z.:
Photoacoustic studies and selective ablation of vascular tissue using a pulsed dye laser.
Appl. Phys. B 51/1, 81-85 (1990) PACS: 87.00 42.55 43.35 61.80
- Ames F., Brumm T., Jäger K., Kluge H.-J., Suri B.M., Rimke H., Trautmann N., Kirchner R.:
A high-temperature laser ion source for trace analysis and other applications.
Appl. Phys. B 51/3, 200-206 (1990) PACS: 07.77 07.80 32.80 14.60
- Arnold A., Ketterle W., Becker H., Wolfrum J.:
Simultaneous single-shot imaging of OH and O₃ using a two-wavelength excimer laser.
Appl. Phys. B 51/2, 99-102 (1990) PACS: 82.40P 82.80 07.60
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- Azinović D., Fichler G.:
Ultraviolet and blue NaHg and NaCd excimer bands.
Appl. Phys. B 51/6, 427-430 (1990) PACS: 33.80K 42.55 42.60 52.80
- Bezrodny A.E., Semibalamut V.M., Titov E.A.:
Effect of wavefront curvature within the cavity on the shift of the saturated-absorption resonance.
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- Bhar G.C., Chatterjee U., Datta P.:
Enhancement of second harmonic generation by double-pass configuration in barium borate.
Appl. Phys. B 51/5, 317-319 (1990) PACS: 42.60H 42.65
- Bombach R., Gerber T., Hemmerling B., Hubschmid W.:
Aspects of hydrogen CARS thermometry.
Appl. Phys. B 51/1, 59-60 (1990) PACS: 33.20F 42.65
- Bornemann T., Kornas V., Schulz v.d.Gathen V., Döbele H.F.:
Temperature and concentration measurements of molecular hydrogen in a filamentary discharge by coherent anti-Stokes Raman spectroscopy (CARS).
Appl. Phys. B 51/5, 307-313 (1990) PACS: 52.70 42.65
- Cartaleva St.St., Gateva S.V.:
611.8 nm single-mode He-Ne laser.
Appl. Phys. B 51/4, 292-294 (1990) PACS: 42.55 42.60
- Chebotaev V.P.:
Amplification of the pulse responses in ensemble of nonlinear oscillators.
Appl. Phys. B 51/4, 303-306 (1990) PACS: 42.65
- CHEN J.-T., YU Z.-X.:
Investigation of aggregation of porphyrin derivative Fe(TPP)Cl at low temperature by time-resolved fluorescence spectrum.
Appl. Phys. B 51/3, 222-226 (1990) PACS: 36.00
- Choroba S., Böttcher W.:
Interferometric measurement of two-dimensional Xe⁺ and electron density distributions in XeCl laser discharges.
Appl. Phys. B 51/6, 379-385 (1990) PACS: 42.55 07.60 52.70
- Costa A.F. da, Tsui K.H., Huang Y.K., Massone C.A.:
Partial pressure scaling law of CO₂ laser efficiency.
Appl. Phys. B 51/3, 227-232 (1990) PACS: 42.60
- Cottreau M.J., Grisch F., Marie J.J.:
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- Dagata J.A., Villa E., Lin M.C.:
UV desorption and photochemistry of dimethylgold hexafluoroacetate adsorbed on a quartz substrate.
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Parametric study of the IRMPD of CF₃HCl molecules with the 9P22 CO₂ laser line.
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- Derzhiev V., Karelin A., Sereda O., Stefanova M., Yakovlenko S.:
Numerical modeling of He-Zn laser with helical hollow cathode.
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Efficient amplification of sub-picosecond pulses of non-CW dye laser.
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Study of relaxation of molecular iodine by the method of saturated absorption spectroscopy.
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Coherent interactions in two-beam excite-probe absorption measurements: Phase gratings in flowing samples.
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The absorption of 158 nm radiation in nitric oxide: The prospects for an optically pumped vacuum UV laser.
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Stimulated collision induced processes in sodium vapor in the presence of helium.
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Doppler-free two-photon modulation transfer spectroscopy in sodium dimers.
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Two-dimensional measurement of density, velocity, and temperature in turbulent high-speed air flows by UV Rayleigh scattering.
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Dynamics of refractive-index changes and two-beam coupling in resonant media.
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The influence of spontaneous emission on the pulse generation in DFDL near threshold.
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